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William A. Kinnaman, Jr.	ROBERTS, BRIAN S

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William A. Kinnaman, Jr.
IBM Corporation - MS P386
2455 South Road
Poughkeepsie, NY 12601

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Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

Office Action Summary	Application No. 09/904,423	Applicant(s) STAIGER, DIETER E.
	Examiner Brian Roberts	Art Unit 2616

-- *The MAILING DATE of this communication appears on the cover sheet with the correspondence address* --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on <u>13 February 2006</u>.

2a)☒ This action is **FINAL**.   2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) <u>1, 3, 5-13, and 15-34</u> is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) <u>1, 3, 5-13, and 15-34</u> is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All b)☐ Some * c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1)☐ Notice of References Cited (PTO-892)

2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3)☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____.

4)☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____ .

5)☐ Notice of Informal Patent Application (PTO-152)

6)☐ Other: _____.

DETAILED ACTION

- The amendment filed on 02/21/2006 is acknowledged.

- Claims 2, 4, and 14 have been cancelled.

- Claims 31-34 have been added.

- Claims 1, 3, 5-13, and 15-34 remain pending.

Claim Rejections - 35 USC § 112

1.   The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly
claiming the subject matter which the applicant regards as his invention.

2.   Claim 33 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite

for failing to particularly point out and distinctly claim the subject matter which applicant

regards as the invention.

-   In reference to claim 33

Claim 33 recites the limitation "said bus channel control" in line 2. There is

insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

3.   The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by
another filed in the United States before the invention by the applicant for patent or (2) a patent
granted on an application for patent by another filed in the United States before the invention by the
applicant for patent, except that an international application filed under the treaty defined in section
351(a) shall have the effects for purposes of this subsection of an application filed in the United States

only if the international application designated the United States and was published under Article 21(2)
of such treaty in the English language.

4.   Claims 1, 3, 5-13, 15-18, and 31 are rejected under 35 U.S.C. 102(e) as being

anticipated by Long et al. (US 6728238).

-   In reference to claim 1, 31

Long et al. teaches a plurality of channels utilized for the transmission of voice

and data. Voice is given a higher priority than data and is allowed to initially seize some

or all of the channels. (abstract) The remaining channels (subset of channels) are

allocated to the data transmissions of data packets over the data channels. In Figure 9,

Long et al. further teaches that the common equipment (NIC and SWM), the RT and line

card are configured by the main computer via a group link and a DSL signaling channel,

to open a path of the predetermined number of channels between the RT and the NIC.

COTC main computer then sends a command for the RT to place the Ethernet data

onto the allocated DSL data channels. (transforming a data stream into a format

permitting concurrent transmission over the subset of channels) Once a voice channel

becomes inactive the data is allowed to seize the newly available channels (extended

subset) and data packets can be distributed over the available channels for

transmission and reception. (column 5 lines 2-32) Long et al. further teaches

transforming the data stream into Ethernet packets that enable utilizing a maximum

transmission rate characteristic of the DSL lines. (column 14 lines 24-50)

-   In reference to claim 3

Long et al. further teaches de-allocating a 64 Kbps channel from the data

bandwidth and reserving the channel as a clear channel for voice data. The channel will

remain dedicated to the voice call as long as the call is in progress. (column 5 lines 14-

18)

- In reference to claim 5-8

In Figure 4, Long et al. further teaches a CPU that inherently has a table

containing information about the number of channels that are not being used by voice

and that the data is allowed to seize since the voice as a higher priority than data and

the maximum bit rate of the channels.

- In reference to claim 9-11

Long et al. further teaches a CPU that inherently contains a table about the

overall number of channels and the maximum transmission rate of each channel.

(column 11 lines 7-11)

- In reference to claim 12-13

Long et al. further teaches checking the condition of the channels to see whether

they are busy and checking to see whether the channel is transmitting voice or data

information. (column 5 lines 2-32)

- In reference to claim 15

In Figure 9, Long et al. further teaches a method that includes buffering the

Ethernet packet in a system memory at the remote terminal. (step 574)

- In reference to claim 16 and 17

Long et al. teaches transforming the data stream into Ethernet packets data that

contain information about data stream and transmitting the Ethernet packets using

standard network protocols. (abstract)

- In reference to claim 18

Long et al. teaches a method that uses a CPU to perform the method of step 1.

5.   Claims 1, 5-7, 9-13, 15, 18-19, and 28 are rejected under 35 U.S.C. 102(b) as

being anticipated by O'Neal et al. (US 4156796).

- In reference to claim 1, 18

O'Neal et al. discloses a communications control method and a computer

program comprising of the steps:

- Determining the communications lines that will be used via the line address

   register (column 3 line 65-68) (determining a subset of channels to be seized)

- A data stream originating from the host processor is buffered in a two-byte

   buffer location within one of 32, 128 byte line control blocks. The data is then

   transferred one byte at a time from the line control block data buffer to a

   transmit buffer in the scanner. The data is then serialized and transmitted

across a communication line. (column 10 line 63 – column 11 line 37) The

transmission rate is determined by the frequency the transmit buffer is

serviced. (column 4, lines 15-31) This enables the utilization of the maximum

transmission rate characteristic for each communication line.

• Transmitting and receiving data on any one or more of 32 communications

   lines simultaneously. (abstract)

- In reference to claim 5-7

O'Neil et al. further teaches a method of referencing a scan table that includes

information about the data source. The table contains information about the number of

communication lines to be used (column 15 lines 17-29), and the priority of the data

(column 15 lines 1-16) (column 4 lines 15-32).

- In reference to claims 9-11

O'Neil et al. further teaches a method of determining which communication lines

are most efficient for transmission by referencing a scan table storage element that

contains the data parameters for one or more of the 32 lines of the transmission facility

(column 4 lines 15-32). The data parameters "include configuration information about

each particular line (i.e., transmission speed, number of bits per character, synchronous

or asynchronous mode, etc.)" The information is found in the scan table storage. (Figure

4)

- In reference to claim 12-13

O'Neil et al. further teaches a mechanism to periodically access a scan table

containing status and control information associated with each communication line.

(column 1 lines 36-40). The priority of the information currently being transmitted is

determined using the scan table and interrupt routines. (column 55 lines 24-68). Data

transmit functions have a higher priority than data receive functions allowing for busy

channels to be taken over. (column 4 lines 1-14)

- In reference to claim 15

O'Neil et al. further teaches the buffering of the data stream. "Each line control

block includes a two-byte buffer location for temporarily buffering data as it is being

transferred from the host process or the FIG. 19 scanner". (column 6 lines 65-68,

column 7 lines 1-2, Figure 3)

- In reference to claim 19

O'Neil et al. discloses a communication control device comprising:

● A bus access controller that determines the status of the communication lines;

(Figure 1 and 3, column 6 lines 4-34)

● A bus channel control that allows the data to be transmitted concurrently; (Figure

1-2, column 6-8) A data stream originating from the host processor is buffered in

a two-byte buffer location within one of 32, 128 byte line control blocks. The data

is then transferred one byte at a time from the line control block data buffer to a

transmit buffer in the scanner. The data is then serialized and transmitted across

a communication line. (column 10 line 63 – column 11 line 37) The transmission

rate is determined by the frequency the transmit buffer is serviced. (column 4,

lines 15-31) This enables the utilization of the maximum transmission rate

characteristic for each communication line.

- Multiplexing unit for transmitting data synchronous or asynchronous over any

  combination of 32 communication lines. (Figure 1, column 48 lines 30-68, column

  49 lines 1-12)

  - In reference to claim 28

  O'Neil et al. teaches buffers for buffering the data stream. "Each line control

block includes a two-byte buffer location for temporarily buffering data as it is being

transferred from the host process or the FIG. 19 scanner". (column 6 lines 65-68,

column 7 lines 1-2, Figure 3)

Claim Rejections - 35 USC § 103

6.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

7.   Claims 3, 16-17, and 31 are rejected under 35 U.S.C. 103(a) as being

unpatentable over O'Neal et al. (US 4156796) in view of Long et al. (US 6728238)

- In reference to claim 3

O'Neil et al. teaches a method that covers substantially all limitations of the parent claim. O'Neil further teaches a method that allows for transmit data functions to take priority over receiving data functions and supports synchronous or asynchronous operation in any combination of 32 communication lines (column 48 lines 30-68).

O'Neil et al. does not explicitly teach redistributing the data stream among a reduced subset of channels if one or more of the channels become unavailable.

Long et al. further teaches de-allocating a 64 Kbps channel from the data bandwidth and reserving the channel as a clear channel for voice data. The channel will remain dedicated to the voice call as long as the call is in progress. (column 5 lines 14-18) The data packets are distributed over the remaining available channels.

It would have been obvious to one of ordinary skill in the art at the time of the invention to add the method of redistributing data disclosed by Long et al. to the method of O'Neil et al. to allow the redistribution of data among the communication lines in use if one or more communication lines became unavailable because it would improve the efficiency of the data transmission and the utilization of transmission resources.

- In reference to claim 16 and 17

O'Neil et al. teaches a method that covers substantially all limitations of the parent claim. O'Neil et al. further describes a data stream originating from a data source that is transformed in order to be transmitted on a plurality of communication lines.

O'Neil et al. does not explicitly disclose creating data packets out of the data

stream or using standard network protocol to transmit the data.

Long et al. teaches creating data packets out of the data stream and transmitting

the data utilizing a standard network protocol.

It would have been obvious to one of ordinary skill in the art at the time of the

invention to modify O'Neil et al. to include creating data packets as disclosed in Long et

al. prior to transmitting the data, and then transmit the data using a standard network

protocol in order to utilize the bandwidth of the bus more efficiently.

-   In reference to claim 31

O'Neil et al. teaches a system and method that covers substantially all limitations

of the parent claim.

O'Neal et al. does not explicitly teach redistributing the transformed data stream

among an extended subset of the channels if during transmission of the transformed

data stream one or more additional channels becomes available.

Long et al. teaches a plurality of channels utilized for the transmission of voice

and data. Voice is given a higher priority than data and is allowed to initially seize some

or all of the channels. (abstract) The remaining channels (subset of channels) are

allocated to the data transmissions of data packets over the data channels. Once a

voice channel becomes inactive the data is allowed to seize the newly available

channels (extended subset) and data packets can be distributed over the available

channels for transmission and reception. (column 5 lines 2-32)

It would have been obvious to one of ordinary skill in the art at the time of the

invention to modify the method of O'Neal et al. to include redistributing the data to an

extended number of channels if during transmission one or more channels become

available as taught by Long et al. because it would allow for maximum use of the

available data services. (column 5 lines 31-32)

8.   Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over O'Neal et

al. (US 4156796) in view of Kawakatsu et al. (US 5119367)

        -   In reference to claims 8

O'Neil et al. teaches a system and method that covers substantially all limitations

of the parent claims. O'Neil et al. further discloses utilizing a table to store data about

the data source. O'Neil et al. teaches storing information about the number of

communication lines to be used (column 15 lines 17-29), and the priority of the data

(column 15 lines 1-16; column 4 lines 15-32) in the table.

        O'Neil et al. does not explicitly teach including in the table information about the

maximum bit rate of the data source that can enter the network.

        Kawakatsu et al. teaches storing the maximum bit rate in a table. (column 5 lines

28-33)

        It would have been obvious to one of ordinary skill in the art at the time of the

invention to include in the table as taught by O'Neil et al. a maximum bit rate as taught

by Kawakatsu et al. that the data can enter the network in order to record the traffic

capacity of the network and to prevent data loss or a buffer overflow that could occur as

a result of more data entering the network than the network can handle.

9.   Claims 20-22 and 24-26 are rejected under 35 U.S.C 103(a) as being

unpatentable over O'Neal et al. (US 4156796) in view of Enstrom. (US 5530895)

        -    In reference to claims 20-22 and 24-26

O'Neil et al. teaches a system and method that covers substantially all limitations

of the parent claims. O'Neil et al. further teaches referencing a scan table that includes

information about the data source and the transmission facility. The table is stored and

accessed via a data and address register as shown in Figure 4 and described within the

detailed description of Figure 4. The table contains the number of communication lines

to be used (column 15 lines 17-29), the priority of the data (column 15 lines 1-16)

(column 4 lines 15-32), and the transmission speed, number of bits per character,

synchronous or asynchronous mode for each line.

        O'Neil et al. does not explicitly teach a configuration register.

        In Figure 2, Enstrom teaches a configuration register.

        It would have been obvious to one of ordinary skill in the art at the time of the

invention to modify the system and method of O'Neil et al. to include a configuration

register as taught by Enstrom because a configuration register would allow the

information about the data source and transmission facility to be stored in a central

location.

10.   Claim 23 is rejected under 35 U.S.C 103(a) as being unpatentable over O'Neal et

al. (US 4156796) in view of Enstrom. (US 5530895), as applied to the parent claims,

and further in view of Kawakatsu et al. (US 5119367)

    -   In reference to claims 23

The combination of O'Neil et al. and Enstrom teaches a system and method that

covers substantially all limitations of the parent claims. O'Neil et al. further discloses

utilizing a table to store data about the data source. O'Neil et al. teaches storing

information about the number of communication lines to be used (column 15 lines 17-

29), and the priority of the data (column 15 lines 1-16) (column 4 lines 15-32) in the

table.

The combination of O'Neil et al. and Enstrom does not explicitly teach including

information in the table about the maximum bit rate of the data source that can enter the

network.

Kawakatsu et al. teaches storing the maximum bit rate in a table. (column 5 lines

28-33)

It would have been obvious to one of ordinary skill in the art at the time of the

invention to include in the table as taught by the combination of O'Neil et al. and

Enstrom a maximum bit rate as taught by Kawakatsu et al. that the data can enter the

network in order to record the traffic capacity of the network and to prevent data loss or

a buffer overflow that could occur as a result of more data entering the network than the

network can handle.

11.   Claim 27 is rejected under 35 U.S.C 103(a) as being unpatentable over O'Neal et

al. (US 4156796) in view of Cheng. (US 5694581)

-    In reference to claim 27

O'Neil et al. teaches a system that covers substantially all limitations of the

parent claim. O'Neil further teaches a controller transmit interrupt structure, and transmit

and receive hardware queues used in conjunction with various micro-programmed task

scheduling techniques to achieve the scheduling of receive and transmit operations.

O'Neil discloses the hardware in figures 1-3.

O'Neil et al. does not explicitly teach an arbitration controller.

In Figure 4, Cheng teaches an arbitration controller (108) that controls the priority

and scheduling of data transfers.

It would have been obvious to one of ordinary skill in the art at the time of the

invention to modify the system and method of O'Neil et al. to include an arbitration

controller as taught by Cheng because an arbitration controller would facilitate the

scheduling of data transmissions and transmission request.

12.   Claims 29, 30 and 32 are rejected under 35 U.S.C 103(a) as being unpatentable

over O'Neal et al. (US 4156796) in view of Bardotti et al. (US 3,925,766)

-    In reference to claim 29

O'Neil et al. teaches a system and method that covers substantially all limitations

of the parent claim.

O'Neil et al. does not explicitly teach checking the priority of information currently being transmitted over busy channels and selecting one or more of said busy channels to take over control from transmitting data if said priority of information currently transmitted has a lower priority.

Bardotti et al. teaches the use of interrupts in a dynamically variable priority access system with a plurality of input/output channels that allow for the use of interrupts in order to control whether a given request has interrupting power over other information exchanges in progress at a lower priority level, or whether a request, when being serviced, may be interrupted by new interrupt requests at a higher priority level and having effective interrupting power. (column 2-3 lines 59-32)

It would have been obvious to one of ordinary skill in the art at the time of the invention to add the method of interrupts in a dynamically variable priority access system with a plurality of input/output channels as disclosed by Bardotti et al. to the invention that includes initially assigning a data transfer to one or more communications lines, real-time request are prioritized over no-real-time request, high-data-rate lines are favored over low-data rate lines, and the like disclosed by O'Neil et al. because doing so would allow for checking the priority of data currently being transmitted over the busy channels and selecting one or more of the busy channels to take over control from transmitting data if the priority of information currently transmitted had a lower priority.

-   In reference to claim 30 and 32

O'Neil et al. teaches a system that covers substantially all limitations of the parent claim.

O'Neil et al. does not explicitly teach the bus access controller checking the priority of information currently being transmitted over busy channels and selecting one or more of said busy channels to take over control from transmitting data if said priority of information currently transmitted has a lower priority.

Bardotti et al. teaches the use of interrupts in a dynamically variable priority access system with a plurality of input/output channels that allow for the use of interrupts in order to control whether a given request has interrupting power over other information exchanges in progress at a lower priority level, or whether a request, when being serviced, may be interrupted by new interrupt requests at a higher priority level and having effective interrupting power. (column 2-3 lines 59-32)

It would have been obvious to one of ordinary skill in the art at the time of the invention to add the method of interrupts in a dynamically variable priority access system with a plurality of input/output channels as disclosed by Bardotti et al. to the invention that includes a bus controller and initially assigning a data transfer to one or more communications lines, real-time request are prioritized over no-real-time request, high-data-rate lines are favored over low-data rate lines, and the like disclosed by O'Neil et al. because it would allow the bus access controller to check the priority of data currently being transmitted over the busy channels and selecting one or more of the busy channels to take over control from transmitting data if the priority of information currently transmitted had a lower priority.

13.   Claims 33 and 34 are rejected under 35 U.S.C 103(a) as being unpatentable

over O'Neal et al. (US 4156796)

   -   In reference to claim 33, as best understood, and 34

O'Neil et al. teaches a system and method that covers substantially all limitations

of the parent claims. O'Neal et al. teaches a system where a data stream originating

from the host processor is buffered in a two-byte buffer location within a line control

block. The data is then transferred one byte at a time from the line control block data

buffer to a transmit buffer in the scanner. The data is then serialized and transmitted

across a communication line. (column 10 line 63 – column 11 line 37) The

communication line inherently contains a maximum bandwidth.

O'Neil et al. does not explicitly teach transmitting the data at a rate that fully

utilizes the bandwidth.

O'Neil et al. teaches that the transmission rate is determined by the frequency

the transmit buffer is serviced. The communication line can be serviced as frequently as

required which allows for an adaptive transmission rate across the communication line.

(column 4, lines 15-31)

It would have been obvious to one of ordinary skill in the art at the time of the

invention to modify the system and method of O'Neil to include servicing the transmit

buffer at a frequency that enables full utilization of the bandwidth of a communication

line because it allows data to be transmitted across the communication line at the

highest possible transmission rate.

Response to Arguments

14.   Applicant's arguments filed 02/21/2006 have been fully considered but they are

not persuasive.

- In the Remarks on pg. 8 of the Amendment, the Applicant contends that Long

  et al. does not teach transforming the data stream in such a way as to enable

  utilizing a maximum transmission rate characteristic for each of said

  channels.

- The Examiner respectfully disagrees. The Ethernet packets enable utilizing a

  maximum transmission rate characteristic or bandwidth for each DSL line.

  The claim language does not require Long et al. to disclose the Ethernet

  packets being transmitted at a maximum transmission rate. The data stream

  just needs to be transformed in such a way to enable utilizing a maximum

  transmission rate characteristic or bandwidth for each DSL line. Ethernet

  packets meet the limitation. Ethernet packets enable or allow the DSL lines to

  utilize a maximum transmission rate characteristic because Ethernet packets

  could be transmitted over the DSL lines at the maximum transmission rate of

  the DSL lines. Furthermore, it is well known that a network is designed in

  order to utilize the maximum bandwidth of a line or channel.

- In the Remarks on pg. 8 of the Amendment, the Applicant contends that

  O'Neal et al. does not teach transforming the data stream in such a way as to

enable utilizing a maximum transmission rate characteristic for each of said

channels.

- The Examiner respectfully disagrees. O'Neal et al. teaches a system where a

data stream originating from the host processor is buffered in a two-byte

buffer location within a line control block. The data is then transferred one

byte at a time from the line control block data buffer to a transmit buffer in the

scanner. The data is then serialized and transmitted across a communication

line. (column 10 line 63 – column 11 line 37) The transmission rate is

determined by the frequency the transmit buffer is serviced. Buffering

(transforming) the data stream into bytes of data enables utilizing a maximum

transmission rate characteristic because the system requires the data stream

to be buffered into bytes. The claim language does not require O'Neal et al. to

disclose the bytes of data being transmitted at a maximum transmission rate.

The data stream just needs to be transformed in such a way to enable

utilizing a maximum transmission rate characteristic for each communication

line. Buffering the data stream meets the limitation. The data bytes enable or

allow the communication line to utilize a maximum transmission rate

characteristic because the data bytes could be transmitted over the

communication line at the maximum transmission rate of the communication

line if the buffer were serviced at a frequency to enable it.

Conclusion

15.   Applicant's amendment necessitated the new ground(s) of rejection presented in

this Office action. Accordingly, **THIS ACTION IS MADE FINAL.** See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37

CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

16.   Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Brian Roberts whose telephone number is (571) 272-

3095. The examiner can normally be reached on M-F 10:00-7:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Hassan Kizou can be reached on (571) 272-3088. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

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BSR
04/26/2006

HASSAN KIZOU
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600